

Title (en)  
INTRABODY NAVIGATION SYSTEM FOR MEDICAL APPLICATIONS

Title (de)  
INTRAKORPORALES NAVIGATIONSSYSTEM FÜR MEDIZINISCHE ANWENDUNGEN

Title (fr)  
SYSTEME DE NAVIGATION INTRACORPORELLE POUR APPLICATIONS MEDICALES

Publication  
**EP 1100373 B1 20080903 (EN)**

Application  
**EP 99929671 A 19990707**

Priority

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Abstract (en)

[origin: WO0010456A1] This invention is a system, a method for tracking the position, and orientation of a probe such as a catheter whose transverse inner dimension may be at most about 2 millimeters. Three planar antennas (26, 28, 30) that at least partly overlap are used to transmit electromagnetic radiation simultaneously, with the radiation transmitted by each antenna (26, 28, 30) having its own spectrum. In the case of single-frequency spectra, the antennas (26, 28, 30) are provided with mechanisms for decoupling them from each other. A receiver (10) inside the probe includes sensors (16a, 16b, 18a, 18b, 20a, 20b) of the three components of the transmitted field, with sensors (16a, 16b, 18a, 18b, 20a, 20b) for at least two of the three components being pairs of sensors (16a, 16b, 18a, 18b, 20a, 20b), such as coils, disposed symmetrically with respect to a common reference point.

IPC 8 full level

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IPC 8 main group level

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CPC (source: EP US)

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Cited by

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